BR.388/30-9-14

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No : CTCE/BBMP/W No.18/LG/CEMENT/2014-15 Date: 25.08.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. L. Gangadhar,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of RCC Drain and culverts in Jaladarshini Layout, Ward No.18, BBMP, Bangalore.
REFERENCE	:	AEE/H/(WO)/186/2014-15 Dated: 23.08.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

SLNo	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.50 %	

Note:

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- The results indicated above are based on the tests carried out on the samples received in the laboratory.
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Job No. CTCE/BBMP/W.No 18/LG/SAND/2014-15 : 25.08.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.

Agency : **Mr. L. Gangadhar,** Contractor, Bangalore.

Name of Work : Construction of RCC Drain and culverts in Jaladarshini Layout in Ward No.18, BBMP, Bangalore.

Reference : AEE/H/(WO)/186/2014-15 Dated: 23.08.2014

Date of Testing : 25.08.2014

Material : Sand Total Wt. of Aggregates in gms 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	4.45	4.45	95.6	90-100
2.36	205	10.25	14.70	85.3	75-100
1.18	507	25.35	40.05	60.0	55-90
600 Micron	426	21.30	61.35	38.7	35-59
300 Micron	509	25.45	86.80	13.2	8-30
150 Micron	210	10.50	97.30	2.7	0-10

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Building & Highway Material Testing Laboratory

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Job No: CTCE/BBMP/W.No.18/LG/AGG/2014-15 : 25.08.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.

Agency : **Mr. L. Gangadhar,** Contractor, Bangalore.

Name of Work : Construction of RCC Drain and culverts in Jaladarshini Layout in Ward No.18, BBMP, Bangalore.

Reference : AEE/H/(WO)/186/2014-15 Dated: 23.08.2014

Date of Testing : 25.08.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 25800

is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec. Limits
80	0	0	0	100	100
40	1030	3.99	3.99	96.01	95-100
20	16755	64.94	68.93	31.07	30-70
10	5123	19.86	88.79	11.21	10-35
4.75	2599	10.07	98.86	1.14	0-5

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Job No.: CTCE/BBMP/W.No.18/LG/CUBE/2014-15

05.09.20

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.
Agency	: **Mr. L. Gangadhar,** Contractor, Bangalore.
Name of the work	: Construction of RCC Drain and culverts in Jaladarshini Layout in Ward No.1 BBMP, Bangalore.
Reference	: AEE/H/(WO)/186/2014-15 Dated: 23.08.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.08.2014	05.09.2014	8.149	352.3	15.66
2	29.08.2014	05.09.2014	8.386	379.4	16.86
3	29.08.2014	05.09.2014	8.255	368.5	16.38

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